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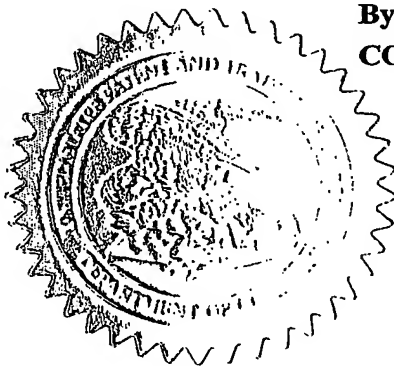
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TRANSMITTAL

Electronic Version v1.1

Stylesheet Version v1.1.0

Title of Invention	Personal Messaging System

Application Number :

Date :

First Named Applicant: Shai Porat

Confirmation Number:

Attorney Docket Number:

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Submitted By:	Elec. Sign.	Sign. Capacity
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Documents being submitted:	Files
us-request	newmsg-usrequ.xml
	us-request.dtd
	us-request.xsl
us-fee-sheet	newmsg-usfees.xml
	us-fee-sheet.xsl
	us-fee-sheet.dtd
us-declaration	newmsg-usdecl.xml
	us-declaration.dtd
	us-declaration.xsl
application-body	newmsg_1.2-trans.xml
	us-application-body.xsl
	application-body.dtd
	wipo.ent
	mathml2.dtd
	mathml2-qname-1.mod
	isoamsa.ent
	isoamsb.ent
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	isopub.ent
	mmlextra.ent
	mmlalias.ent
	soextblx.dtd
	1.tif
	2.tif
	3.tif
	4.tif

Comments

APPLICATION DATA SHEET

Title of Invention	Personal Messaging System

Application Type :	provisional, utility

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Description

Personal Messaging System

BACKGROUND OF INVENTION

FIELD OF THE INVENTION

0001] The present invention relates generally to messaging and more specifically it relates to a personal messaging system for recording, addressing and dispatching a message.

DESCRIPTION OF THE RELATED ART

[0002] Messaging is a common term used for the transfer of messages voice, text, video, or data from one location at a communication network ("sender") to another ("receiver"), using various devices, services and technologies. Typical examples are numeric or alphanumeric paging, and short messages (SMS) delivered to wireless devices.

[0003] The main problem with conventional messaging systems is usability. The sender has to go through several steps in order to type or record a message and to provide the destination. When using a mobile device, with limited display capabilities and a small keyboard, it becomes even more

difficult. Another problem is that the sender"s ability to send a message depends on the receiver"s ability to receive a message. This requires the sender to be familiar with the receiver"s messaging system.

[0004] Some messaging systems and technologies, such as Unified Messaging and Instant Messaging, were designed to overcome some of the above problems, but they are very limited when used with mobile devices.

[0005] In these respects, the personal messaging system according to the present invention substantially departs from the conventional concepts and designs of the prior art, and in so doing provides an apparatus primarily developed for the purpose of making personal messaging intuitive and very easy to use.

SUMMARY OF INVENTION

[0006] In view of the foregoing disadvantages inherent in the known types of messaging systems now present in the prior art, the present invention provides a new personal messaging system that may be utilized for making personal messaging intuitive and very easy to use.

[0007] The general purpose of the present invention, which will be described subsequently in greater details, is to provide a new personal messaging system that has many of the

advantages of the messaging systems mentioned heretofore and many novel features that result in a new personal messaging system.

[0008] To attain this, the present invention generally may comprise a portable device to be used by the sender, and a server system that may analyze the message along with associated sender"s identity and location, and dispatch the message. The portable device may be self-powered and may be comprised of a microphone, a processing unit that converts the recorded voice into a data sequence, a positioning system, such as a GPS receiver, a wireless data connection, such as a connection to a cellular network or to a wireless internet network, a key set, such as one-touch button, and a display, such as an alphanumeric display. The server system may comprise of one or more computers that run software that is capable of analyzing the recorded message and determining the destination of the message based on the sender"s identity, location, time, and keywords or aliases embedded in the recorded message. The server system may support many portable devices, and may also include communication, management, and storage systems.

[0009] There has thus been outlined, rather broadly, the more

important features of the invention in order that the detailed description thereof may be better understood and in order that the present contribution to the art may be better appreciated. There are additional features of the invention that will be described hereinafter.

0010] In this respect, before explaining at least one embodiment of the invention in detail, it is to be understood that the invention is not limited in its application to the details of construction and to the arrangements of the components set forth in the following description or illustrated in the drawings. The invention is capable of other embodiments and of being practiced and carried out in various ways. Also, it is to be understood that the phraseology and terminology employed herein are for the purpose of the description and should not be regarded as limiting.

[0011] A primary object of the invention is to provide a personal messaging system that will overcome the shortcomings of the prior art systems.

[0012] Another object of the present invention is to provide a personal messaging system that is intuitive and very easy to use.

[0013] Other objects and advantages of the present invention will become obvious to a person with common skill in the art

and it is intended that these objects and advantages are within the scope of the present invention.

[0014] To the accomplishment of the above and related objects, this invention may be embodied in the form illustrated in the accompanying drawings, attention being called to the fact, however, that the drawings are illustrative only, and that changes may be made in the specific construction illustrated.

BRIEF DESCRIPTION OF DRAWINGS

[0015] Various other objects, features and attendant advantages of the present invention will become fully appreciated as the same becomes better understood when considered in conjunction with the accompanying drawings, in which like reference characters designate the same or similar parts throughout the several views and wherein:

[0016] FIG.1 shows a possible message flow according to the present invention.

[0017] FIG.2 shows a logical message format according to the present invention.

[0018] FIG.3 is a block diagram of a portable device according to the present invention.

[0019] FIG.4 is a block diagram of a server system according to the present invention.

DETAILED DESCRIPTION

)020] Turning now descriptively to the drawing, in which similar reference characters denote similar elements throughout the several diagrams, the attached figures illustrates a personal messaging system, which may comprise of a portable device to be used by the sender, and a server system that may analyze a message along with associated sender"s identity and location and dispatch the message. The portable device may be self-powered and may be comprised of a microphone, a processing unit, a positioning system, a wireless data connection, a key-set, such as one-touch button, and a display, such as an alphanumeric display. The server system may comprise of one or more computers that run software that is capable of analyzing the recorded message and determining the destination of the message based on the sender"s identity, location, time, and keywords or aliases embedded in the recorded message. The server system may support many portable devices and may also include communication, management, and storage systems.

[0021] FIG.1 shows an example of a possible message flow according to the present invention. A message is sent from the portable device using wireless communication (1)

through wireless network operator, and then over a data network (2) to the Server. The Server, after analyzing the incoming message, dispatches a message to the Receiver, which in this example is on the same wireless network (3, 4). At the same time, the Server notifies the Sender with an alphanumeric message (5,6).

[0022] The portable device may be self-powered and is preferably comprised of a microphone, a processing unit, a positioning system, a wireless data connection, a key-set, such as one-touch button, and a display, such as an alphanumeric display. FIG.3 shows the logical components of a typical device. The microphone, which may be activated when the sender presses and holds the One-touch button, is capable of recording a voice message. The recorded voice message may be stored and processed by the Processing and Control unit, which converts and preferably compresses the voice into data units. A Positioning system, such as but not limited to a Global Positioning System receiver may provide the location of the sender to the Processing and Control unit. The Processing and Control unit then may combine the Sender"s identity, the Sender"s position, and the converted and possibly compressed voice message, into one message (see FIG.2),

which may be sent by the Wireless Communication System to the Server. The Wireless Communication System may be implemented using standard wireless data modem technology, such as but not limited to GPRS or CDMA data modem. The Wireless Communication System may also receive data from the Server to be analyzed by the Processing and Control Unit and possibly displayed on the Display. The Display may also serve for reporting error messages and for other indications, such as time of day, battery power indicator, and network coverage. Alternative implementations of this invention may be possible by adding the functionality of the portable device to other portable devices including, but not limited to, mobile phones, pagers, portable computers, and navigation devices.

[0023] The server system may comprise of one or more computers that run software that is capable of analyzing the recorded message and determining the destination of the message. FIG.4 shows the main logical components of the Server system. Messages are received from the Portable Device, and may be queued at the Message Queue. The Incoming Message Analyzer may decode the message, extract the User"s Identity and Position (see FIG. 2), and by

possibly using speech recognition technology, identify the Receiver information. Users Data may include information such as, but not limited to, a personal address book, handling rules for certain messages, and other service preferences. The Incoming Message Analyzer may use voice information embedded in the message (such as the name of the receiver, or a phone number), along with Identity, Location, Date and Time, and may process all or part of this information according to optional message handling rules, which are optionally pre-set by the User. The Incoming Message Analyzer may also use Mapping Services to translate raw position information, as received from the Portable Device, into conventional location information, such as street, number and city information. The resulting data may then be transferred to the Outgoing Message Composer, which may compose a message or messages to be sent to the Receiver. The message can be text, voice, data, or a combination thereof, according to the message handling rules and based on the Incoming Message Analyzer analysis. The composed message may be dispatched through a conventional data link, such as but not limited to the Internet, to a conventional messaging system gateway. Dispatch destinations may include, but

are not limited to, e-mail, voice-mail, SMS, Pager, fax, telephone, mobile phone, or another device capable of receiving messages. A notification of delivery is optionally sent to the User"s Portable Device as an alphanumeric message to be displayed on the Portable Device"s display. The notification may include the Receiver"s name, or other information, based on the message type and the User"s preferences as previously set and stored in the Users Data.

[0024] User of the present invention can optionally provide personal information, which may be stored in the Server"s Users Data storage. Personal information may include information such as, but not limited to, a list of receivers along with their messaging addresses and possibly a voice tag if required by the speech recognition engine, message handling rules, and other personal preferences. In addition, users may optionally store personal data that may be combined into certain messages, such as, but not limited to, personal phone numbers, personal accounts information, credit card numbers, etc.

[0025] User of the present invention may send a message by pressing and holding the one-touch button on the portable device, and optionally speaking to the micro-

phone, starting with the Receiver name, and following with the message. To complete the message, the user may release the one-touch button. Depending on how the system was provisioned by the User for the Receiver, the message, for example, will be deposited in the Receiver"s voice mail, along with the User"s location. The User, immediately after sending the message, may see the name of the Receiver on the display, indicating that the message was sent to the Receiver.

Claims

[c1]

Personal Messaging System

Abstract

A personal messaging system for recording, addressing and dis-
patching a message. The inventive system includes a portable de-
vice to be used by the sender, and a server system that analyses
the message along with the sender"s identity and location and
dispatches the message. The portable device is self-powered and
is comprised of a microphone, a processing unit that converts the
recorded voice into a data sequence, a positioning system, a wire-
less data connection, a one-touch button, and an alpha-numeric
display. The server system is comprised of one or more comput-
ers that run software that is capable of analyzing the recorded
message and determining the destination of the message based
on the sender"s identity, location, time, and keywords or aliases
embedded in the recorded message.

DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76)

Electronic Version v11

Stylesheet Version v10

Title of Invention	Personal Messaging System

As the below named inventor, I declare that:

This declaration is directed to the invention titled: " Personal Messaging System"

I believe that I am the original and first inventor of the subject matter which is claimed and for which a patent is sought;

I have reviewed and understand the contents of the above-identified application, including the claims, as amended by any amendment specifically referred to above;

I acknowledge the duty to disclose to the United States Patent and Trademark Office all information known to me to be material to patentability as defined in 37 CFR 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT International filing date of the continuation-in-part application.

All statements made herein of my knowledge are true, all statements made herein on information and belief are believed to be true, and further that these statements were made with the knowledge that willful false statements and the like are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001, and may jeopardize the validity of the application or any patent issuing thereon.

FULL NAME OF INVENTOR:

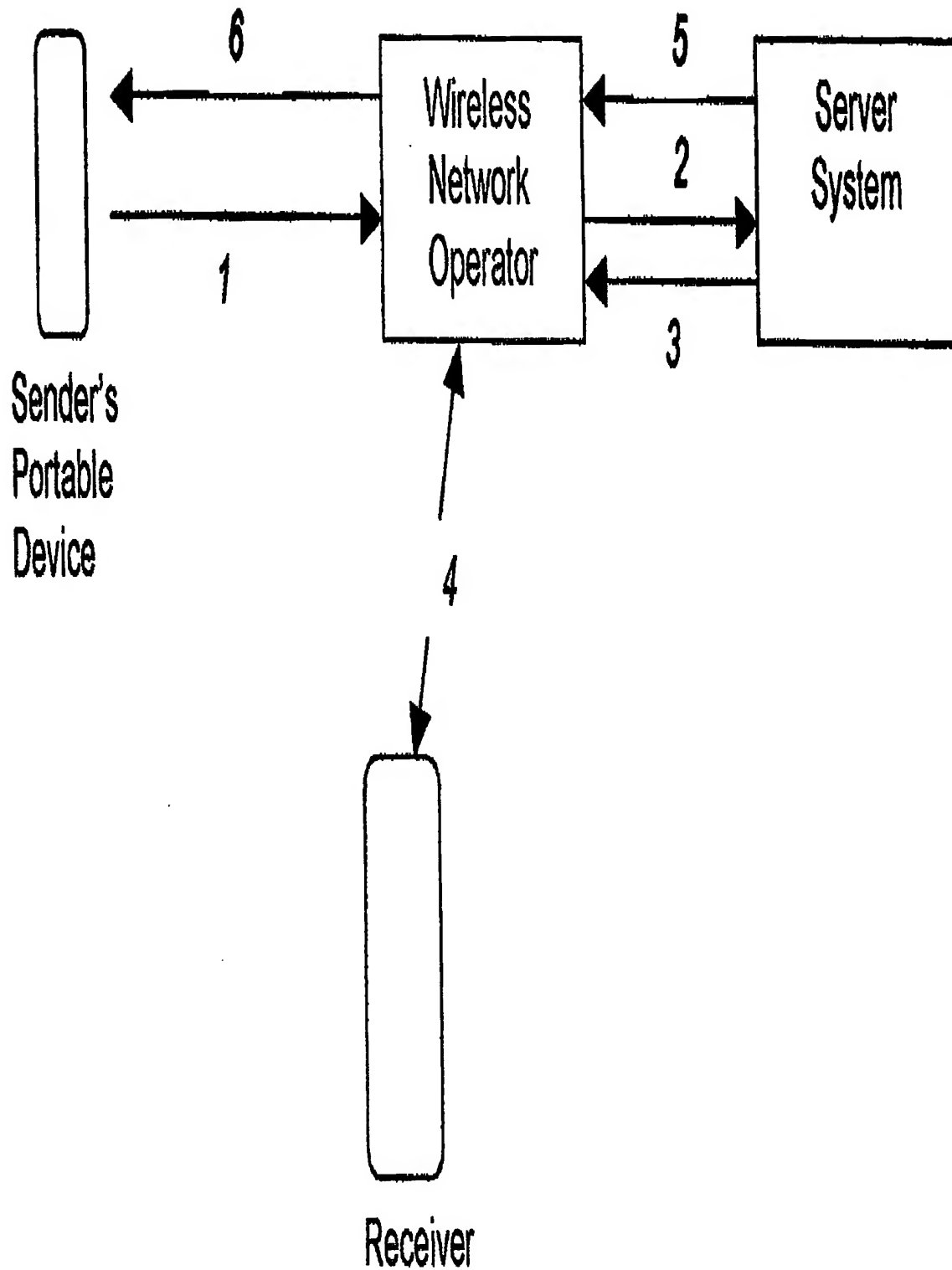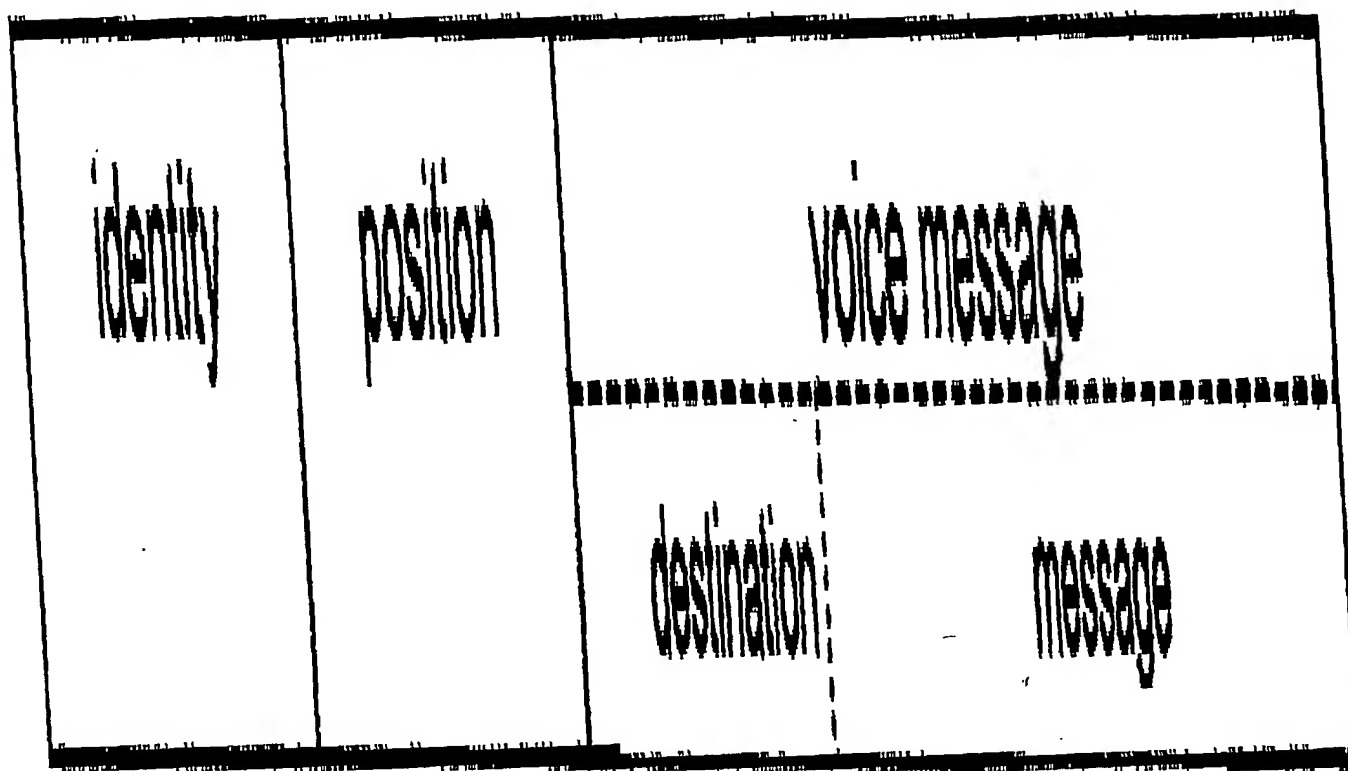| Inventor: Shai Porat	Inventor
Signature : szp	Citizen of : IL

FIG.1: A possible message flow

identity	position	voice message
		destination : message

FIG.2. Logical message format

Sender's voice   Activation   Notification

Microphone   One-touch button   Display

Processing and Control

From external positioning system

Positioning system   Wireless Communication System   Power Supply

Communication with Server System
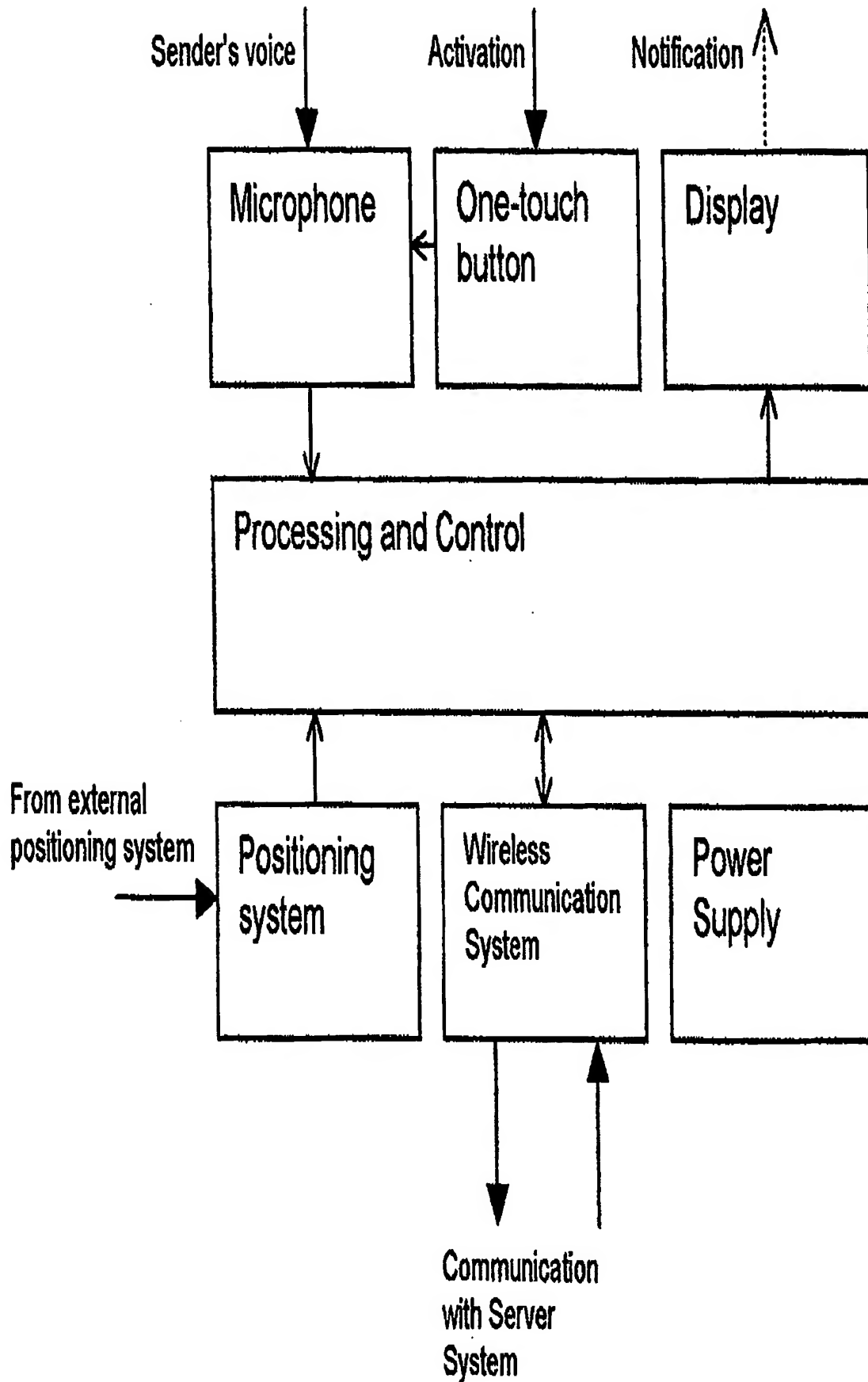
FIG.3: Main components of the Portable Device

Management and Control

Message Queue

rom Portable
evice
1, 2

Incoming Message Analyzer

Provisioning and Personalization

Logs & Reports

Users Data

Web access or voice portal

Speech Recognition Engine

Mapping Services

Outgoing Message Composer

Dispatch

3,4

To conventional Messaging Systems

Notification

5,6

To Portable Device
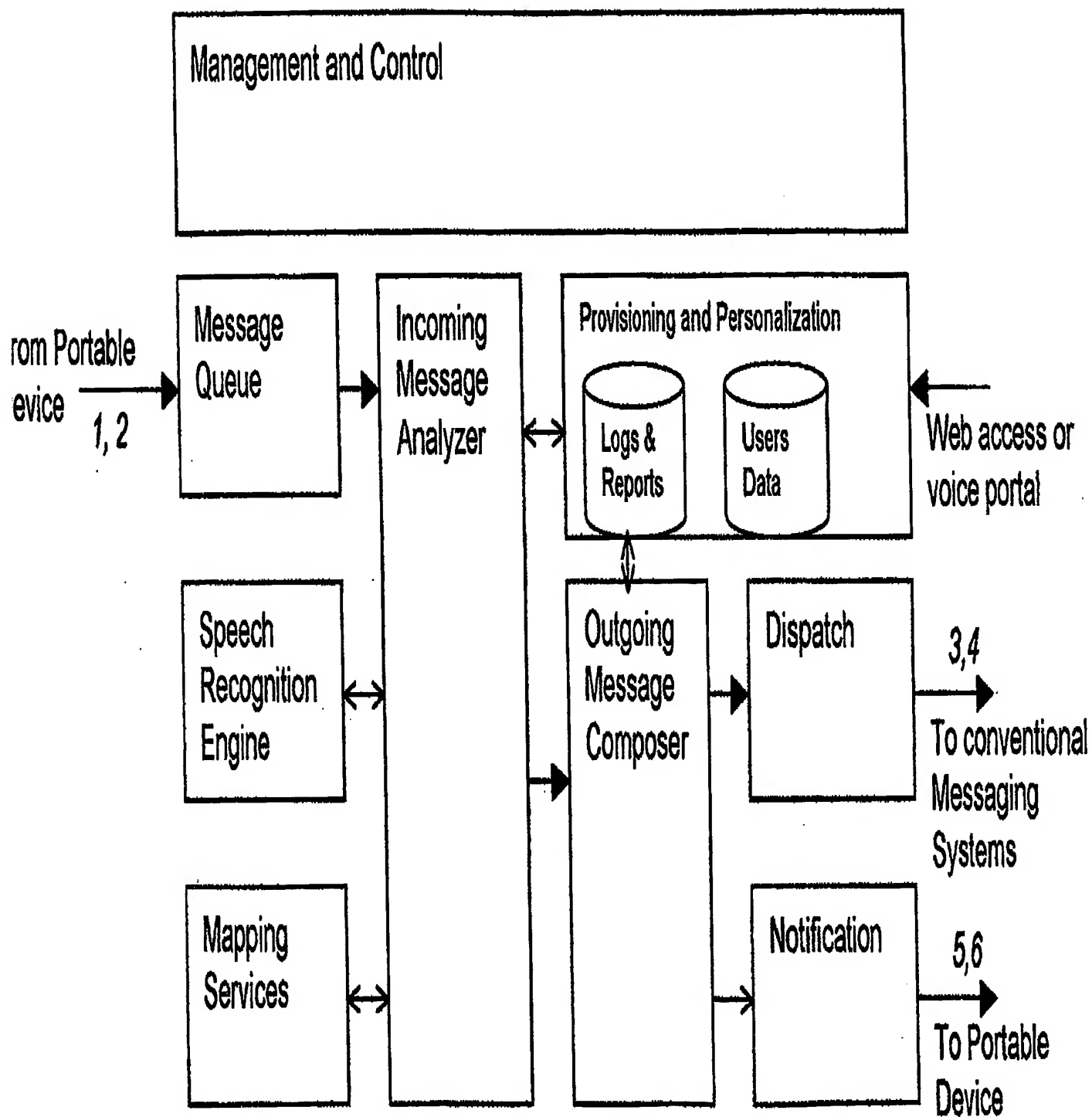
FIG.4: Main logical components of the Server System

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